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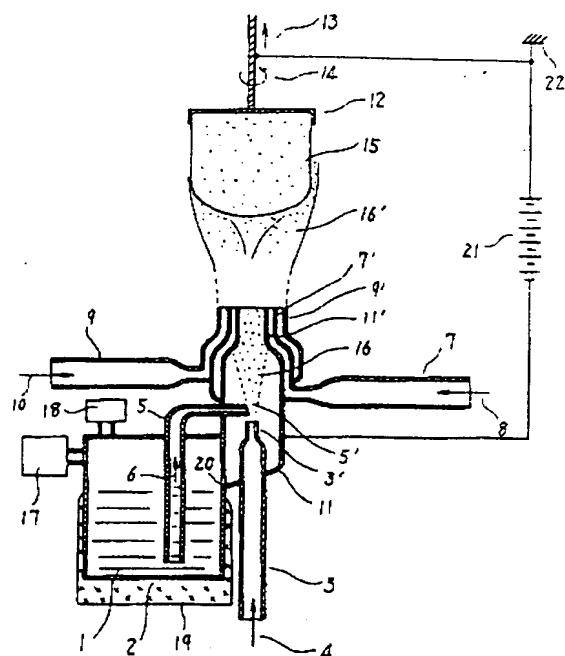
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TITLE : MANUFACTURE OF OPTICAL FIBER
MOTHER MATERIAL



ABSTRACT : PURPOSE: To obtain a mother material for optical fiber in high yield by a high-speed manufacturing method in which DC voltage is applied between a negative voltage- nozzle side and an earthed target, and an ionized glass fine particle is blasted against the target from the nozzle.

CONSTITUTION: The glass raw material 1 of a glass composition is atomized by means of a gas containing hydrogen from the nozzle 3', mixed with an oxidative gas from the pipe 9 and then burned, and then the flame 16' is blasted against the target 12 to deposit the glass fine particles 15. In this case, a DC voltage is applied between the negative voltage-nozzle 3' and the earthed target 12. Thus, the negatively charged glass fine particles with ionized gas coming out of the nozzle 3' collides with the earthed target 12 having a sign different from that of the glass fine particles rapidly and effectively to deposit the glass fine particles 15 of an uniform thickness in order to obtain the optical fiber mother material 12.

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